

3D Digital Video Camera



User's Manual

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Preface

Congratulations on your purchase of this advanced camcorder. Ensure that you read this manual carefully and keep it in a safe place for future reference.

About this manual

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, no guarantee is made regarding the accuracy of the contents. If the contents of this manual do not tally with the camera, please take the camera as a criterion, and our company reserves the right to change the contents or technical rules without notice in advance. Also, the manufacturer reserves the right to change the technical specification in advance without notice.

If the accessories do not tally with the actual package, please take the actual package as a criterion.

Copyright

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All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise, without the prior written permission of the manufacturer.

Precautions

General precautions

- Do not use or store the product in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not store the product in a hot environment. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits.
- Do not attempt to open the casing or attempt your own repairs. High-voltage internal components create the risk of electric shock when exposed.
- Do not drop or knock the product. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not open battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored in file.
- If the product or any of its accessories are not working properly, take them to your nearest qualified service center. The personnel there will assist you and if necessary, arrange for the product to be repaired.
- Test for proper operation before using the camera.

Notes on the LCD Screen

Be very careful to ensure the fluid contained in the LCD screen does not escape if the screen becomes cracked or damaged. If this occurs, follow these steps:

- If the fluids make contact with skin, wipe it with a clean cloth then rinse with a large amount of water.
- If the fluid makes contact with eyes, wash eyes with clean water for at least 15 minutes and go to the hospital as soon as possible.
- If the fluid is swallowed, first rinse mouth with water, then drink a large amount of water and induce vomiting. Go to the hospital as soon as possible.

Operation conditions

- This camera is designed for use in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- Do not use or keep the camera in the following areas:
 - In areas subject to direct sunlight
 - In areas subject to high humidity or dust
 - Near air conditioners, heaters, or other areas subject to temperature extremes
 - Inside of a closed vehicle, especially one parked in the sun.
 - In areas subject to strong vibration

Power supply

- Use only the type of battery that came with your camera. Using any other type of battery may damage the equipment and invalidate the warranty.
- Ensure the battery is inserted correctly. Inserting the battery incorrectly can cause damage to the product and possibly start a fire.

- Remove the battery if the camera is not going to be used for a long time. If the battery is left unused for more than 3 months, you need to charge the battery before use.

Before You Start

Take some test shots before performing a formal recording.

Before taking pictures with this DV camera in any important occasion (such as a wedding ceremony or an overseas trip), do test the DV camera beforehand to ensure that it functions properly. Any additional loss caused by the malfunction of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of the manufacturer and no compensation will be given for it.

Copyright information

Take care to observe "No Photography" notices in certain locations. In these cases, you cannot record any live performance, improvisation or exhibits, even for personal purposes. Any transfer of pictures or memory card data must be conducted under the constraints of copyright law.

1 Introducing the camcorder

Read this section to learn about the features and functions of the camcorder. This chapter also covers system requirements, package contents, and descriptions of the hardware components.

1.1 System requirements

1.1.1 Standard system requirements

The camcorder requires a PC with the following specifications:

- Windows® 7 / Vista / XP operating system
- Intel® / AMD Dual-Core CPU or higher
- At least 1 GB of RAM or higher
- At least DirectX 9 video card, DirectX 10 is recommended
- Standard USB 1.1 port or higher
- At least 2GB or greater available hard disk

1.1.2 System requirements (for 3D video playback)

The camcorder requires a PC with the following specifications:

- Windows® 7 / Vista operating system
- 3D ready monitor (120Hz)
- 3D ready computer
- 3D vision kits

1.2 Features

The camcorder offers a variety of features and functions including:

- 3D and 2D video/image shooting and playback
- 3.2" LCD 3D display
- Parallax barrier auto-stereoscopic technology
- USB mass storage
- 3D and 2D video/image playback
- 3D glasses not required

1.3 Unpacking the camcorder

The following items should be present in the package. If any item is missing or appears damaged, contact your dealer immediately.



Camcorder



User's Manual



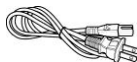
CD Rom



Li-ion Battery



Charger



Power Cable



Pouch



USB AV Cable

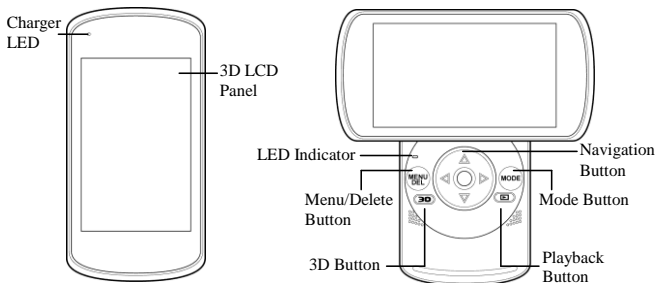


HDMI Cable
(Optional)

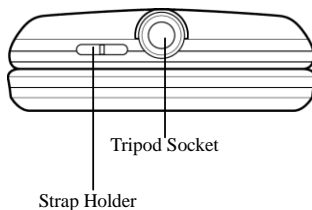
1.4 About the camcorder

Refer to the following illustrations to familiarize yourself with the buttons and controls of this camcorder.

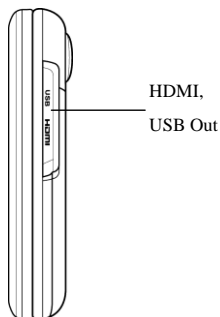
1.4.1 Front view



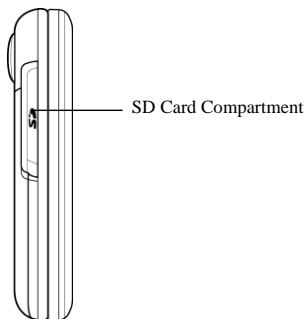
1.4.2 Bottom view



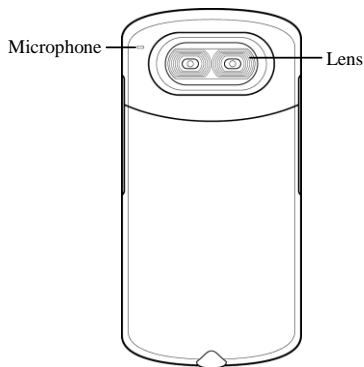
1.4.3 Right view



1.4.4 Left view

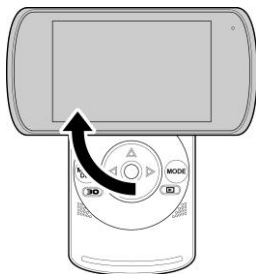


1.4.5 Back view








1.4.6 Operating the camcorder

To turn on the power, rotate the LCD panel (90°).



See the table below for a description of each button's function.

Name	Button	Function
Mode Button		Press to switch to different modes: Video, Camera, or Setup.
Playback Button		Press to playback recorded videos or photos.
3D Button		Press to toggle between 3D and 2D modes.
Menu / Delete Button		<ul style="list-style-type: none">● In Video/Camera mode, press to access the Video/Camera menu.● In Video/Camera menu mode, press to return to Video/Camera mode.● In Playback mode, press to display the delete menu.
Navigation Button		<ul style="list-style-type: none">● Use the four-way control to select items in the menu and press the middle button to confirm.● Press up/down in

Name	Button	Function
		<p>Video/Camera mode to adjust the EV settings.</p> <ul style="list-style-type: none"> ● In Video mode, press the middle button to start recording a video. Press it again to stop recording. ● In Camera mode, press the middle button to take a picture. ● In 2D Video or Camera mode, press right to zoom in or press left to zoom out when shooting videos or photos. ● In Video playback mode, press up/down to adjust the volume level. ● In photo playback mode, press down to view 4 thumbnail images.

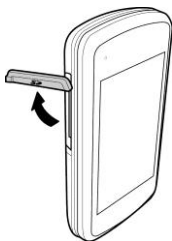
2 Getting started

Read this section to learn how to start using the camcorder. This section covers basic functions such as switching on, inserting the battery and memory card, and configuring preliminary settings. See later chapters for advanced functions.

2.1 Inserting an SD card

An SD card can be installed in the camcorder to provide additional storage space for still images, video clips, or other files.

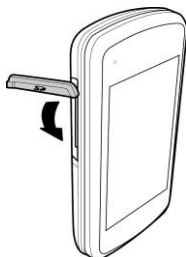
1. Open the SD card door as shown in the illustration.



2. Insert the memory card. We recommend using a memory card with a capacity of 1 GB or higher.



3. Close the SD card door.



2.2 Inserting the battery

This camcorder is designed to use a rechargeable Li-ion battery. Only use the battery supplied by the manufacturer or your dealer.

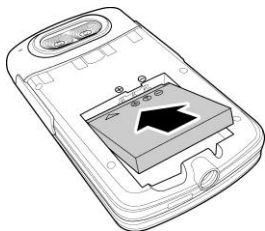
Note:

Install the battery exactly as described here. Installing the battery incorrectly could cause damage to the camcorder and possibly start a fire.

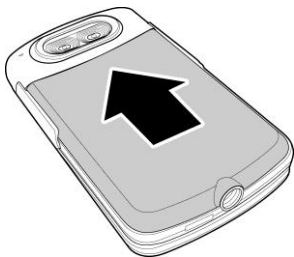
1. Remove the battery cover as shown in the illustration.



2. Insert the battery. Make sure that the + and - symbols on the battery line up with the + and - symbols on your camcorder.



3. Close the battery cover.



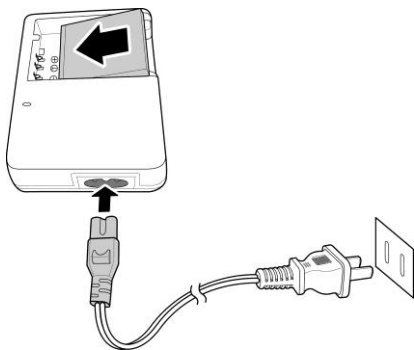
Note:

Make sure that the battery cover is tightly closed to ensure proper operation.

2.3 Charging the battery

You can charge the battery with the charging unit provided. Follow the below steps to charge your battery.

1. Insert the Li-ion battery into the charging bay. Connect one end of the power cord to the charging unit and then plug the other end to the wall outlet as shown.
2. The orange LED will light up for proper charging.
3. After full charge, the LED turns to green.
4. Actual charging time depends on current battery capacity and charging conditions.



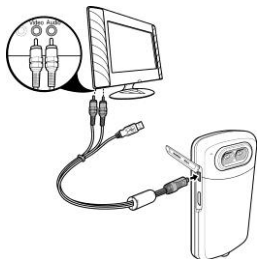
Approximate charging time is 120 minutes with a charger and 150 minutes with an USB connection.

2.4 Turning on/ off the camcorder

Rotate the LCD panel (90°) to turn the camcorder on/off.

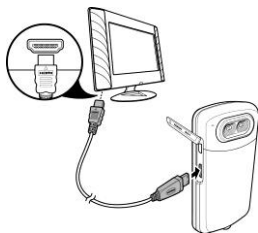
2.5 Connecting to TV (AV Cable)

To view pictures or videos on a TV, connect the camcorder to a TV using the supplied AV cable as shown.



2.6 Connecting to TV (HDMI Cable)

You can also connect the camcorder to a TV using the HDMI cable (Optional).

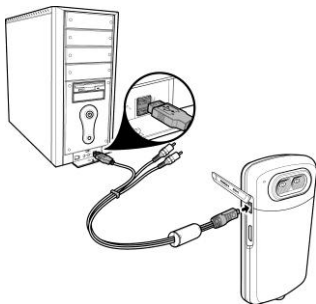


Note:

For 3D video playback, you need to use a 3D HDTV.

2.7 Connecting to PC (USB Cable)

Connect the camcorder to a computer with the USB cable provided as shown.



2.8 Changing modes

The camcorder can operate in three modes, **Video**, **Camera**, and **Setup**. Press the **Mode Button** to toggle between Video, Camera, and Setup modes. You can also press the **3D Button** to toggle between the **2D** and the **3D** modes. While shooting movies or 2D photos, press the **Menu Button** to enter the Video or Camera menu to adjust White balance, Resolution, Color, Date stamp, or Continuous shooting.

2.9 Before you start

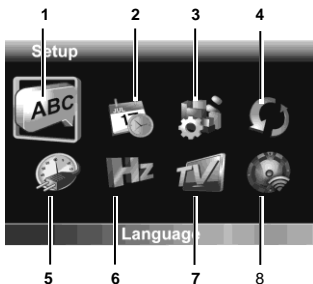
Before you start using the camcorder, some basic settings such as date and time, languages and beep function need to be configured.

2.9.1 Managing the Setup mode

To select a menu in the Setup mode, please do the following:

1. Press the **Mode Button** to switch to the Setup mode screen.
2. Use the **Navigation Button** to scroll through the options/pages until the desired menu is highlighted. Please see below for the available options.
3. Press the **middle Navigation Button** to open the menu.

The following options are available in the Setup mode:



- | | |
|--------------|-------------------|
| 1. Language | 5. Auto power off |
| 2. Date/Time | 6. Frequency |
| 3. Format | 7. TV standard |
| 4. Default | 8. Beep |

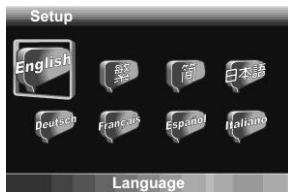
Please read the following section to learn how to operate each menu.

2.9.2 Language

The Language menu allows you to select the language displayed.

To select the language, please do the following:

1. Use the **left/right Navigation Button** to select the desired language.
2. Press the **middle Navigation Button** to confirm.

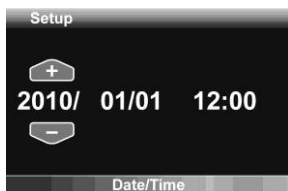


2.9.3 Date / Time

The Date / Time menu allows you to adjust the date and time.

To adjust the Date / Time, please do the following:

1. Use the **left/right Navigation Button** to select the field to be adjusted.
2. Use the **up/down Navigation Button** to adjust the value.
3. Press the **middle Navigation Button** to confirm.



2.9.4 Format

The Format menu allows you to format your memory card or the internal memory when no memory card is inserted.

To format your memory card or internal memory, please do the following:

1. Use the **left/right Navigation Button** to select \checkmark .
2. Press the **middle Navigation Button** to confirm.



Warning: Formatting will delete everything on the media.

2.9.5 Default

The Default menu allows you to reset the camcorder to factory defaults.

To reset, please do the following:

1. Use the **left/right Navigation Button** to select \checkmark .
2. Press the **middle Navigation Button** to confirm.



2.9.6 Auto Power Off

The Auto Power Off menu allows you to set an idle time after which the camcorder automatically sets to sleep mode to save power.

To adjust the Auto Power Off, please do the following:

1. Use the **left/right Navigation Button** to select:
 - X: Disable the Auto Power Off function.
 - 1 min.: Auto Power Off after 1 minute.
 - 5 min.: Auto Power Off after 5 minutes.
2. Press the **middle Navigation Button** to confirm.



2.9.7 Frequency

The Frequency menu allows you to set the refresh rate of the camcorder. Increasing the refresh rate decreases flickering, thereby reducing eyestrain.

To set the refresh rate, please do the following:

1. Use the **left/right Navigation Button** to select 60Hz or 50Hz.
2. Press the **middle Navigation Button** to confirm.



2.9.8 TV Standard

The TV Standard menu allows you to select the TV standard of the recorded videos.

To adjust the TV Standard, please do the following:

1. Use the **left/right Navigation Button** to select NTSC or PAL.
2. Press the **middle Navigation Button** to confirm.



2.9.9 Beep

The Beep menu allows you to turn the operation sound off or on.

To adjust the Beep, please do the following:

1. Use the **left/right Navigation Button** to select:
 - X: Turn the operation sound off.
 - ✓: Turn the operation sound on.



2. Press the **middle Navigation Button** to confirm.

3 Using the Camcorder

3.1 Recording Videos

To record a movie, do the following:

1. Rotate the LCD to turn on the camcorder.
2. Press the **middle Navigation Button** to start recording the video.

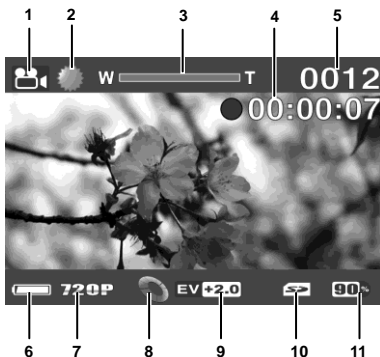
To adjust the video, you may:







- Press the **3D Button** to switch to 3D or 2D mode. 3D mode allows you to record videos with 3D effects; 2D mode allows you to take regular 2D videos.
 - Press the **down Navigation Button** to decrease the EV settings.
 - Press the **up Navigation Button** to increase the EV settings.
 - Use the **left/right Navigation Button** to zoom out/in in the 2D mode.
 - Press the **Menu Button** to go to the Video mode menu for more adjustment options.
3. To stop movie recording, press the **middle Navigation Button** again.






Notes:

1. For best results, maintain a 30-40 cm distance between your eyes and the LCD panel when previewing 3D photos or videos.
2. The maximum file size of each video recording mode is approximately 3.9GB.

The Video Recording Screen



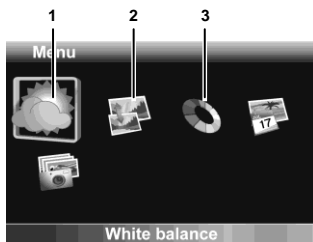
#	Icon	Description
1		Indicates that the camcorder is in Video mode.
2		Indicates the current White Balance mode.
3		Indicates the amount of zoom being used.
4		Indicates the recording time.
5		Indicates the number of the current video.
6		Indicates the amount of battery power left.

#	Icon	Description
7		Indicates the current resolution.
8		Indicates the current Color mode being used.
9		Indicates the current exposure value.
10		Indicates the memory card is inserted. The icon disappears when no memory card is inserted; files are stored in internal memory.
11		Indicates the remaining space for your memory card/internal memory.

3.2 Video Mode Menu

To select a menu in the Video mode, please do the following:

1. Press the **Menu Button** to open the Video mode menu screen.
2. Use the **Navigation Button** to scroll through the options until the desired menu is highlighted. Please see below for the available options.
3. Press the **middle Navigation Button** to open the menu.
4. Press the **Menu Button** to go back to Video mode.



The following options are available in the Video mode menu:

1. White balance
2. Resolution
3. Color

Please read the following section to learn how to operate each menu.

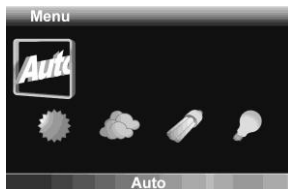
3.2.1 White Balance

The White Balance menu allows you to set the white balance when capturing images under specific lighting conditions.

To set the White Balance, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:

- Auto: Select this option to let the camcorder set the white balance automatically.
- Sunny: Select this option for daylight filming.
- Cloudy: Select this option for filming in cloudy days.
- Tungsten: Select this option for normal indoor lighting conditions.
- Fluorescent: Select this option for fluorescent lighting.



2. Press the **middle Navigation Button** to confirm.

3.2.2 Resolution

The Resolution menu allows you to set the resolution before you capture an image or a video. The higher the resolution, the more memory space is required.

To select the resolution, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:
 - VGA: Select this option for 640 x 480 resolution (3D only).
 - WVGA: Select this option for 848 x 480 resolution.
 - 720P: Select this option for 1280 x 720 resolution (2D only).
2. Press the **middle Navigation Button** to confirm.

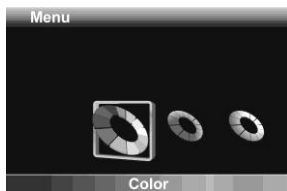


3.2.3 Color

The Color menu allows you to change the recording effect.

To set the Color, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:
 - Color: Select it for color photography.
 - Sepia: Select it for brown color effect.
 - Black & White: Select it for black and white effect.
2. Press the **middle Navigation Button** to confirm.



3.3 Playback Videos

3.3.1 Playback Videos

To playback videos, please do the following:



1. Make sure you are in the Video mode. Press the **Mode Button** to switch to the Video mode if not.
2. Press the **3D Button** to switch to 3D or 2D mode to view the 3D or 2D videos you recorded.
3. Press the **Playback Button** to enter the Video playback screen.
4. Press the **left/right Navigation Button** to browse the recorded videos.
5. Press the **middle Navigation Button** to playback the video.
 - Before starting the video playback, you can adjust the volume level by pressing **up/down Navigation Button**.
 - To stop playback, press the **middle Navigation Button**.
 - To rewind/fast-forward, press and hold the **left/right Navigation Button** to toggle different speeds (2X, 4X, or 8X).

Note:

Videos must be recorded in 3D mode to have 3D effects.


The Video Playback Screen



#	Icon	Description
1		Indicates that the camcorder is in Playback mode.
2	0012	Indicates the number of the current video.
3		Indicates the amount of battery power left.
4	00:00:07	Indicates the total recorded time.

3.4 Deleting Videos

To delete a video, please do the following:

1. Press the **Playback Button** to switch to the Video playback mode.
2. Press the **left/right Navigation Button** to switch to the file you want to delete.
3. Press the **Delete Button** to open the delete video screen.
4. Use the **left/right Navigation Button** to select .
5. Press the **middle Navigation Button** to confirm.



3.5 Shooting Photos

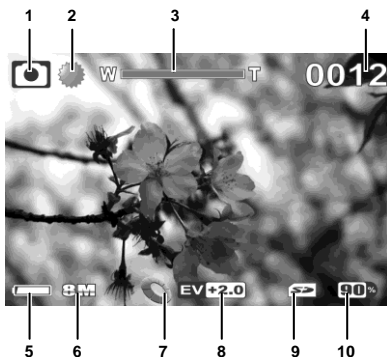
To shoot a photo, do the following:

1. Flip open the LCD to turn on the camcorder.
2. Press the **Mode Button** to switch to Camera mode.
3. Press the **middle Navigation Button** to capture a photo.






To adjust the camera, you may:

- Press the **3D Button** to switch to 3D or 2D mode. 3D mode allows you to record photos with 3D effects; 2D mode allows you to take regular 2D photos.
- Press the **down Navigation Button** to decrease the EV settings.
- Press the **up Navigation Button** to increase the EV settings
- Use the **left/right Navigation Button** to zoom out/in and out in the 2D mode.
- Press the **Menu Button** to enter the Camera mode menu for more adjustment options.

The Camera Screen



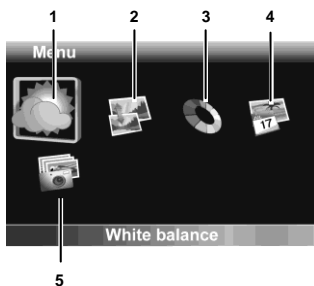
#	Icon	Description
1		Indicates that the camcorder is in Camera mode.
2		Indicates the current White Balance mode.
3		Indicates the amount of zoom being used.
4		Indicates the number of the current photo.
5		Indicates the amount of battery power left.

#	Icon	Description
6		Indicates the current resolution.
7		Indicates the current Effect mode being used.
8		Indicates the current exposure value.
9		Indicates the memory card is inserted. The icon disappears when no memory card is inserted; files are stored in internal memory.
10		Indicates the remaining space for your memory card/internal memory.

3.6 Camera Mode Menu

To select a menu in the Camera mode, please do the following:

1. Press the **Menu Button** to open the Camera mode menu screen.
2. Use the **Navigation Button** to scroll through the options until the desired menu is highlighted. Please see below for the available options.
3. Press the **middle Navigation Button** to open the menu.
4. Press the **Menu Button** to go back to the Camera mode.



The following options are available in the Camera mode menu:

- | | |
|-------------------------|----------------------------------|
| 1. White balance | 4. Date stamp (2D only) |
| 2. Resolution (2D only) | 5. Continuous shooting (2D only) |
| 3. Color | |

Please read the following section to learn how to operate each menu.

3.6.1 White Balance

The White Balance menu allows you to adjust the white balance when capturing images under specific lighting conditions.

To set the White Balance, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:

- Auto: Select this option to let the camcorder set the white balance automatically.
- Sunny: Select this option for daylight filming.
- Cloudy: Select this option for filming in cloudy days.
- Tungsten: Select this option for normal indoor lighting conditions.
- Fluorescent: Select this option for fluorescent lighting.

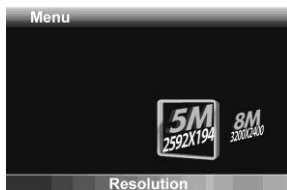


2. Press the **middle Navigation Button** to confirm.

3.6.2 Resolution

The Resolution menu allows you to set the resolution before you capture an image or a video. The higher the resolution, the more memory space is required. To select the resolution, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:
 - 5M: Select this option for 2592 x 1944 resolution.
 - 8M: Select this option for 3200x2400 resolution.



2. Press the **middle Navigation Button** to confirm.

3.6.3 Color

The Color menu allows you to change the camera effect.

To set the Color, please do the following:

1. Use the **left/right Navigation Button** to select the desired option:
 - Color: Select this option for color photography.
 - Sepia: Select this option for brown color effect.
 - Black & White: Select this option for black and white effect.
2. Press the **middle Navigation Button** to confirm.



3.6.4 Date Stamp

Date Stamp allows you to imprint a date/time stamp on the photo.

To turn on the Date Stamp, please do the following:

1. Use the **left/right Navigation Button** to select ✓.
2. Press the **middle Navigation Button** to confirm.

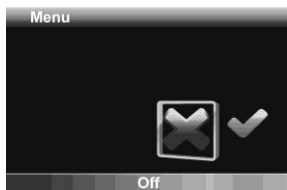


3.6.5 Continuous Shooting

Continuous Shooting allows you to shoot photos continuously while the Shutter Button is held down.

To set the Continuous Shooting, please do the following:

1. Use the **left/right Navigation Button** to select ✓.
2. Press the **middle Navigation Button** to confirm.



3.7 Playback Photos

3.7.1 Playback Photos

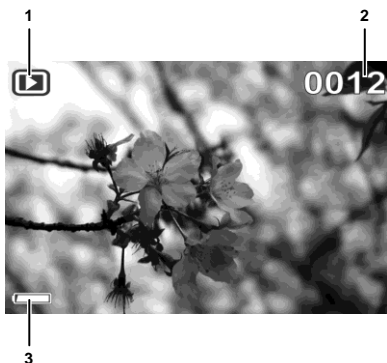
To playback photos, please do the following:



1. Make sure you are in the Camera mode. Press the **Mode Button** to switch to the Camera mode if not.
2. Press the **3D Button** to switch to 3D or 2D mode to view the 3D or 2D photos you recorded.
3. Press the **Playback Button** to enter the Photo playback screen.
4. Press the **left/right Navigation Button** to browse the recorded photos.
 - Use the **down Navigation Button** to view 4 thumbnail images. Use the **Navigation Button** to select the desired image and press the **middle Navigation Button** to display the image at its regular size.

Note:

Photos must be recorded in 3D mode to have 3D effects.


The Photo Playback Screen



#	Icon	Description
1		Indicates that the camcorder is in Playback mode.
2	0012	Indicates the number of the current photo.
3		Indicates the amount of battery power left.

3.8 Deleting Photos

To delete a photo, please do the following:

1. Make sure you are in the Photo playback mode. When in Camera mode, press the **Playback Button** to switch to the Photo playback mode.
2. Press the **left/right Navigation Button** to switch to the file you want to delete.
3. Press the **Delete Button** to open the delete photo screen.
4. Use the **left/right Navigation Button** to select .
5. Press the **middle Navigation Button** to confirm.



Specifications

General	
Imaging sensor	1/4" 5M CMOS Sensor x 2
Active pixels	5.0 Megapixel
Storage media	Internal: Built-in 128MB Flash Memory SD Card: (Up to SDHC 32GB Class6)
Color effects	Color/Sepia/Black & White
Lens	F2.8, f=3.83mm
Focus range	Approx. 1.0m~infinity
Still image	Formats: JPEG (EXIF 2.2), DCF, 3D Still image: 1M 2D Still image: 5M, 8M (Firmware Interpolation)

General

Movie clips	H.264 (AVI) 3D Movie: VGA 640x480, WVGA 848 x 480 2D Movie: 720p30fps, WVGA30fps
Zoom	3D: NA 2D: 4X Digital Zoom
LCD monitor	3.2" color LCD monitor (320 x 480 pixels)
White balance	Auto/Sunny/Cloudy/Tungsten/ Fluorescent
EV compensation	-2.0 EV~+2.0 EV
PC interface	USB 2.0 (high speed)
AV out format	NTSC/PAL/HDMI
Shutter	Electronic shutter 1/30-1/2000
Auto power off	Off, 1 min., 5 min.
Power supply	KLIC 7001 Li-ion battery
Dimensions (W x H x D)	Approx. 59 x 112 x 18.9 mm
Weight	Approx. 112 g ± 5g (without battery and memory card)

Troubleshooting

Problem	Possible Cause	Solution
Cannot turn on the camcorder.	The battery is not inserted correctly. The battery have no power.	①Insert the battery correctly. ①Charge the battery.
The camcorder suddenly turns off.	The auto power off function is enabled. The camcorder is running out of battery power.	①Turn the power on again. ①Replace the battery.
The captured image is not stored in memory.	Before the image is saved the power has been cut off.	①When the battery indicator turns red, replace the battery immediately.
The camcorder turns off while taking a picture.	The camera is running out of battery power.	①Replace the battery.
The image is out of focus.	The subject is beyond focus range.	①Please take a picture within the available focus range.

Problem	Possible Cause	Solution
A black screen appears on the screen.	The EV setting may be set too low.	① Adjust the EV setting on the camcorder.
Memory card cannot be used.	The memory card is protected. The memory card contains non-DCF images taken by other camcorders.	① Unlock the memory card. ① Format the memory card. Before formatting the card, ensure you back up the files.
All buttons are inactive.	Short circuit occurred when connecting the camera with other devices.	① Remove the battery from the camera and insert again.

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